

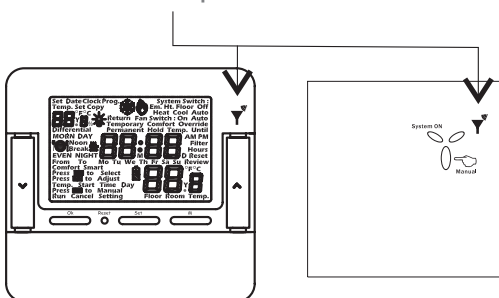
Features

The Cosytoes Programmable Wireless Timerstat consists of a mobile transmitter unit and a receiver unit. The flush-mounting receiver unit will fit most 60mm conduit boxes. Note - The receiver unit should not be installed in a bathroom or wet area. The transmitter should be sited in the room with the underfloor heating so that it can pick up the room temperature.

The installation requires no wiring between transmitter and receiver and can be fitted in any normal operating environment within a 30m range between the two units. A unique facility of this device is its R/F address code setting, which is built into both the transmitter and the receiver to ensure that the R/F signal will not be interfered by any other nearby R/F signal. A maximum heat selector switch is built inside the receiver to provide installers with an easy means to set a required floor temperature limit.

Note - The receiver utilises the floor probe to ensure that the floor temperature limit is not exceeded. We recommend that a limit of 32°C be selected under normal circumstances. (See 'Setting the Floor Temperature Limitation' for details.)

The blue backlit display and buttons of the transmitter allow for operation even in dim lighting. There is a choice of three working frequencies. 'Frequency' is marked on the top right of the plastic housing on both the transmitter and receiver. The marked frequency on both units must be consistent or the transmitter and receiver will not operate.

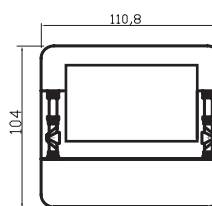


The transmitter unit is powered by 4xAAA alkaline batteries. Two batteries to power the

transmitter and another two to power the backlit display and red L.E.D. The receiver unit uses mains power for operation.

Technical Data

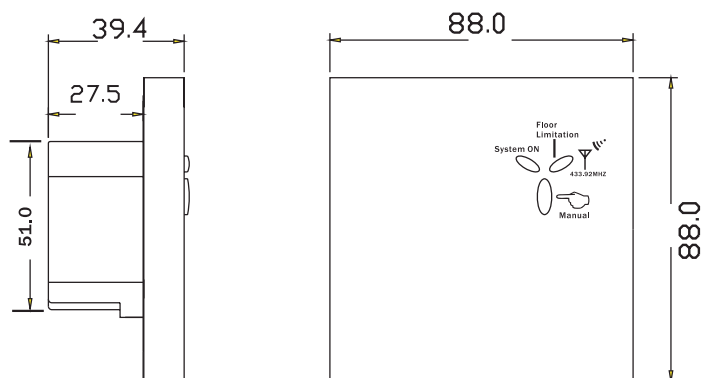
1. Power supply : 1.5 V AAA Battery x 4. 2 pieces each for Transmitter-unit's operating and back light
2. Battery: 1 year
3. Temperature reading : °C /°F selective by internal setting
4. Clock format : 24H/12H selective by internal setting
5. Temperature sampling rate : 1 minute
6. Switching differential : 0.5°C~1.0°C / 1.0°F~2.0°F selective by internal setting
7. Temperature control range : 5~35°C
8. Temperature display range : 0~50°C
9. Temperature setting: 1.0
10. Programming feature: 7-d or 5-1-1d day-format & P6/P4 program-periods/day by default setting, not selective at user's side.
11. Shortest cycle rate protection : 3-minute, default setting "deactivated".
12. Non volatile EEPROM ensures no program/setting loss
13. Temperature sensor: 100K Ω at 25 °C
14. Working Frequency: 3 types for option (installer preset, not selective by users)
T433 : 433.92 MHZ
T868 : 868.35 MHZ
T915 : 915 MHZ
15. R/F signal transmission cycle : transmits 3 times in cycle of 2.5 minutes, continuous.
16. Working distance : 30 meters
17. Dimension : 110.8 W x 104 H x 21.5 D mm.



1. Operating power: 230Vac 50/60Hz
2. Power consumption _5VA
3. Output rating: 16 Amp/25_0Vac resistive, Volt-

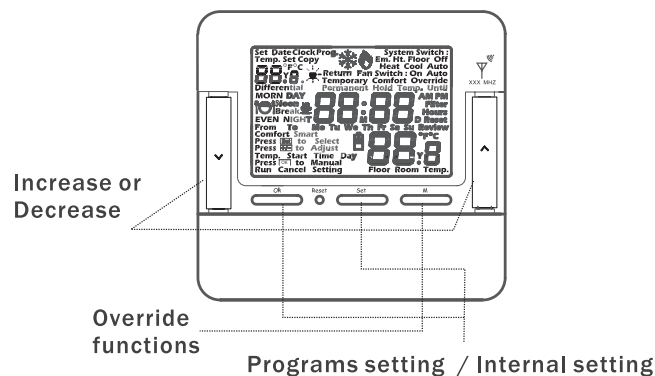
free

4. Storage temperature: -10°C ~ 60°C
5. Working frequency : a-433.92MHz
b-868.35MHz c-915MHz
6. Working distance : 30 Meters
7. Floor sensor: 10K Ω at 25°C
8. Floor temperature limitation setting range :
26°C~40°C
9. Switching differential in floor temperature
limitation : 2.0°C. Prefixed
10. Installation : 60 mm flush-mount
11. Dimension : 88.0 W x 88.0 H x 39.4 D mm

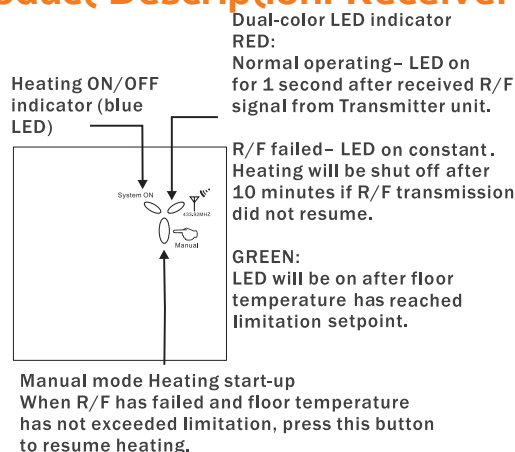


IMPORTANT: All electrical work should be carried out by a qualified electrician and comply with I.E.E. regulation.

Product Description: Transmitter Unit



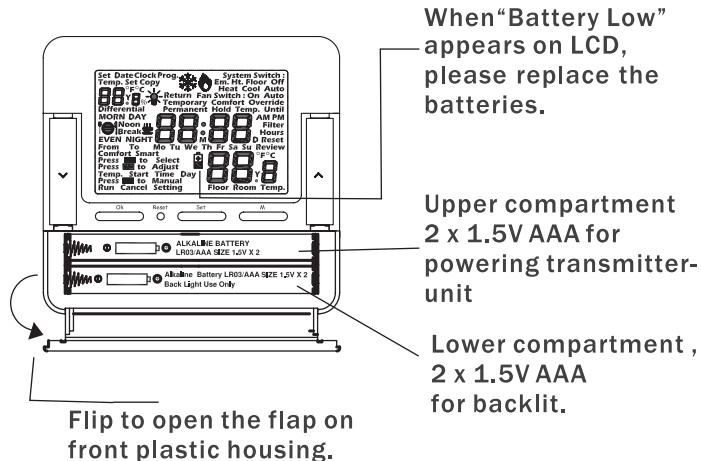
Product Description: Receiver Unit



Fixing the Plug-in stand on Transmitter unit

1. Insert “-” head screw-driver into position shown here.
2. Push upward
3. Pull stand off back plastic housing
4. Hold the stand with hand, press it vertically against the “groove” originally is to store the stand. Note: Make sure the “stand” faces to correct direction.
5. Glide the “stand” downward.
6. The stand is now fixed
7. Pressing “stand” downward, as shown in picture above, can take it off from back housing.

Installing/replacing batteries in the Transmitter-unit



Opening the Transmitter Unit Assembly (to access the Frequency Selector)

Note: Flat-head screw-driver required as assisting tool.



1. Insert screw-driver as shown in picture



2. Tilting downward to loosen the “hook-on” enclosure.



3. Open as shown.

Reassembling the Transmitter Unit Assembly (after access the Frequency Selector)

Note: Flat-head screw-driver required as assisting tool.



1. Replace the “hook-on” enclosure as shown in picture.



2. Press to firmly close.

To Open the Receiver Unit

Note: “+” head screw-driver required as assisting tool.



1. Slacken the fastening screw as shown.



2. Take appart the housing.

To Reassemble the Receiver Unit.

Note: “+” head screw-driver required as assisting tool.



1. The stud on the front housing fits into the square-hole on the rear assembly.



2. Close the two parts and line up the “groove” with the screw, as shown.



3. Tighten the screw.

RF Address Code Setting

On the back of the Transmitter circuit board. If there is another RVF-0356 unit nearby, e.g in the next house, the receiver may be fault triggered by the other transmitter. You may select a different RF address code to prevent this. Receiver can only response to RF coding with the same address code setting as its own address code.



(On the back of the receiver unit circuit board)

Set the selection the same way on both frequency selection switches.

BEWARE OF THE DIRECTION



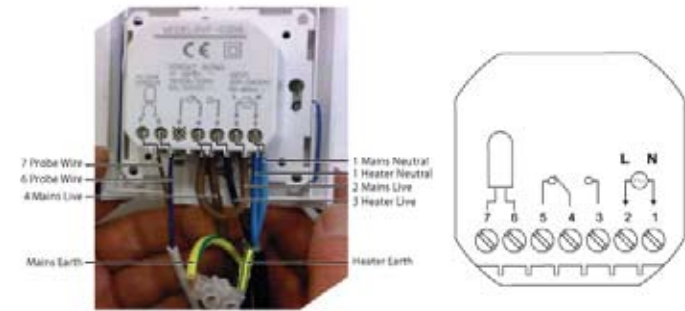
Floor Temperature Limitation Switch

Set the selection the same way on both frequency selection switches.

Setting the Floor temperature limitation

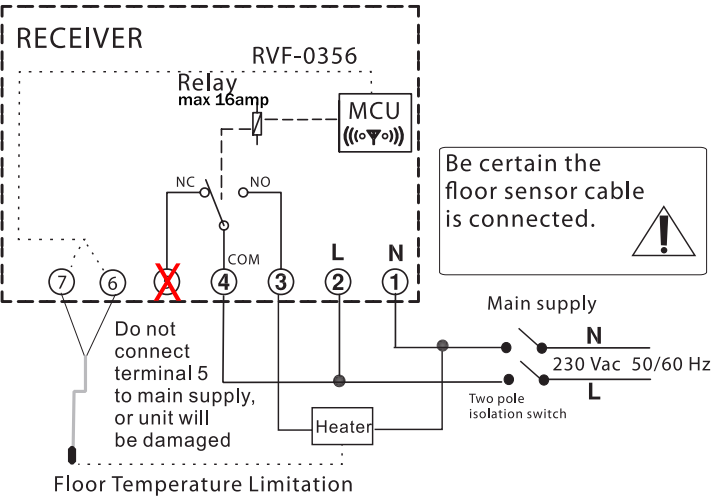
this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Adjusting Dip Switch to	 0 0 0 0	 1 0 0 0	 0 1 0 0	 1 1 0 0
Setpoint	limitation ineffective	78.8°F 26°C	80.6°F 27°C	82.4°F 28°C
Adjusting Dip Switch to	 0 0 1 0	 1 0 1 0	 0 1 1 0	 1 1 1 0
Setpoint	84.2°F 29°C	86.0°F 30°C	87.8°F 31°C	89.6°F 32°C
Adjusting Dip Switch to	 0 0 0 1	 1 0 0 1	 0 1 0 1	 1 1 0 1
Setpoint	91.4°F 33°C	93.2°F 34°C	95.0°F 35°C	96.8°F 36°C
Adjusting Dip Switch to	 0 0 1 1	 1 0 1 1	 0 1 1 0	 1 1 1 1
Setpoint	98.6°F 37°C	100.4°F 38°C	102.2°F 39°C	104.0°F 40°C



Wiring Diagram

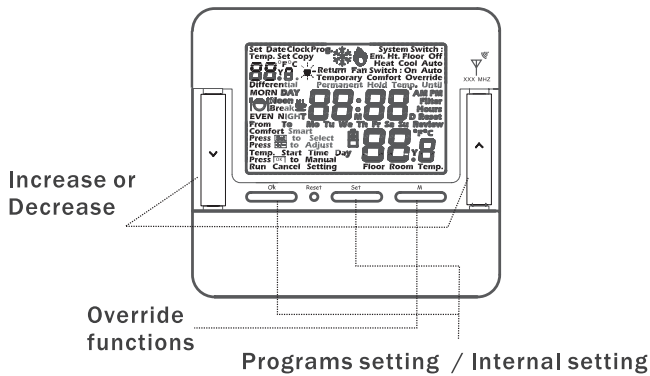
The heating system should be protected by an RCD to comply with the terms of guarantee and to be fully I.E.E. compliant. The receiver unit must be installed outside a bathroom. This device is rated at: - 16amps/3500w or 22sqm Cosytoes mat @ 160w/sqm.



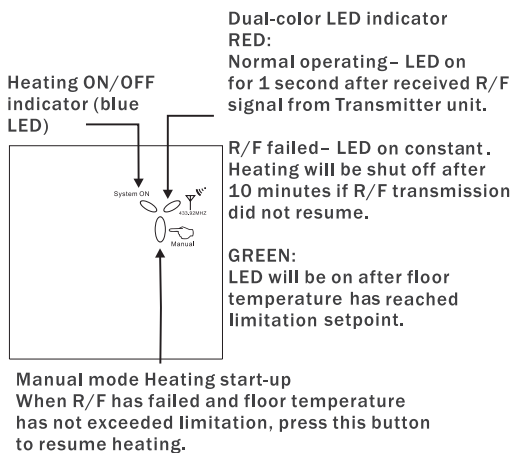
Important Note (By FCC, for application of 915 MHz)

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device. This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions (1)

Product Description: Transmitter Unit



Product Description: Receiver Unit



Fixing the Plug-in stand on Transmitter unit



1. Insert “-” head screw-driver into position shown here.



2. Push upward



3. Pull stand off back plastic housing



4. Hold the stand with hand, press it vertically against the “groove” originally is to store the stand. Note: Make sure the “stand” faces to correct direction.



5. Glide the “stand” downward.

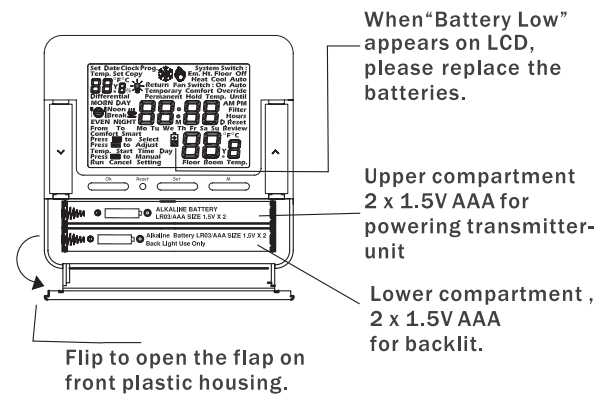


6. The stand is now fixed



7. Pressing “stand” downward, as shown in picture above, can take it off from back housing.

Installing/Replacing Batteries In The Transmitter-Unit



Introduction

The programmable transmitter is simple to use, once you understand the basics.

There is a temperature sensor within the unit that will switch the underfloor heating on when the set temperature exceeds the room temperature.

There are 6 default time periods with set temperatures already programmed in

Start time for P1 is 06:00 @ 23°C

Start time for P2 is 08:30 @ 17°C

Start time for P3 is 12:00 @ 17°C

Start time for P4 is 14:00 @ 17°C

Start time for P5 is 16:30 @ 23°C

Start time for P6 is 22:30 @ 17°C

If you want a time period off then have the set temperature low - say 10°C and if you want the period on - have the temperature higher to suite. A normal room ambient temperature is 22°C.

It is also possible to adjust the start times of the relevant time periods - but please note, do not try to eliminate time periods or the unit will 'lock up.'

Before commencing, the reset button should be pressed or the unit may not function correctly.

To set date and time

Hold down 'Set' for 10 seconds - select degrees C or degrees F using ^v buttons then press OK
Select 24hour clock or 12hour clock using ^v buttons then press OK

Set the year using ^v buttons then press OK
Set the month using ^v buttons then press OK
Set the day/date using ^v buttons then press OK
Set the hour using ^v buttons then press OK
Set the minutes using ^v buttons then press OK
Set the temperature differential to 0.5 using ^v buttons then press OK
Ignore the filter hours that is not applicable to heating and press OK
PRESS OK TO RUN.^v

To Program The Timerstat



Press 'Set' once - (you will start programming from Monday morning)
Set the temperature for early morning using the ^v buttons then press OK
Set the time you want this temperature to begin using the ^v buttons then press OK
Set the temperature for day using the ^v buttons then press OK
Set the time you want this temperature to begin using the ^v buttons then press OK
Set the temperature for midday using the ^v buttons then press OK
Set the time you want this temperature to begin using the ^v buttons then press OK
Set the temperature for afternoon using the ^v buttons then press OK

Set the time you want this temperature to begin using the ^v buttons then press OK
Set the temperature for evening using the ^v buttons then press OK
Set the time you want this temperature to begin using the ^v buttons then press OK
Set the temperature for night using the ^v buttons then press OK
Set the time you want this temperature to begin using the ^v buttons then press OK.

(you will now start to set Tuesday in the same way)

If you want Tuesday to be the set the same as Monday:
Press ['Set'] again to copy the program. ['From'] will flash on the screen, press the ^ button to select Mo (Monday) then press OK
['To'] will flash on the screen, press the ^ button to select Tu (Tuesday) then press OK
['To'] will flash on the screen again, if you want to copy the program to Wednesday press the ^ button to select We then press OK
['To'] will flash on the screen again, if you want to copy the program to thursday press the ^ button to select Th then press OK etc...
All the days you have selected to copy the program to will be displayed on the screen
When you have selected all the days that you want to copy, press OK.

THEN PRESS OK TO RUN.

NOTE: There are 6 time periods each day so that if you want the heating on then during a time period then increase the temperature for that time period - and if you want it off then set a low temperature. So for example, if you want the heating on in the morning then set periods 1 and 5 high and the other time periods low. The set temperature on the programmer gives the receiver unit the command for the floor temperature and is subject to the floor temperature limitation set by the installer in the receiver unit. The temperature display under the time is the air temperature around the programmer and not the floor temperature - the heating on/off blue LED shows when the system has reached temperature

Overriding The Automatic Program Settings

Simply press ^ or v to change temperature, then press OK. Will revert to normal settings at end of current time period.

Press M once for 'comfort override', select temperature with ^ or v, then press OK, then select time with ^ or v, then press OK.

Press M twice for 'permanent hold temperature', select temperature with ^ or v, then press OK.

Press M three times for 'hold temp until', select temperature with ^ or v, then press OK,

Select date/year with ^ or v then press OK.

Note: to remove overrides, press OK in all cases.